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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,995	07/07/2003	Makoto Tsumura	A8319.0024/P024	1876
24998	7590	01/26/2006	EXAMINER	
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP			DINH, DUC Q	
2101 L Street, NW			ART UNIT	PAPER NUMBER
Washington, DC 20037			2674	

DATE MAILED: 01/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/612,995

Applicant(s)

TSUMURA ET AL.

Examiner

DUC Q. DINH

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) 10-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. This is response to the Election without traverse filed on October 05, 2005. Applicant election without traverse of Species 1, claims 1-9 is acknowledged.

#### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al (US 2002/0196220 A1), hereinafter, Sato.

In reference to claim 1, Sato discloses a liquid crystal display device (10; Fig. 10) comprising a periodically switching light source repeatedly turning ON and OFF (backlight controller 37) at a predetermined timing and a display unit (10) for displaying an image by controlling light transmission or reflection [0108] of the periodically switching light source according to the image data, wherein

write into the liquid crystal display device in each display frame (Fig 20) constituting an image is divided into a first write (Ta1) for writing into all the pixels using precharge (100 B, 100D, 100F) data as representative of a plurality of pixels created according to a first algorithm and a second write (Ta2) for additionally writing overwriting data (100A, 100e, 100C) created on at least some pixels according to a second algorithm, thereby displaying an image [0195-0199].

In reference to claim 2, Sato discloses liquid crystal display device (20) in Fig. 1-2 wherein the display unit includes a liquid crystal layer (12) sandwiched by two substrates (27-28) at least one of which is transparent, a plurality of row (31A-31F) wires and a plurality of column wires (32; Fig. 19) on one of the two substrates, and active elements (13) on the intersections between the row wires and the column wires, so that image data is written by dot sequentially or line sequentially via the active elements into the pixels arranged in a matrix [0195].

In reference to claim 3, Sato discloses the precharge data used for the first write is composed of image data representative of image data of a plurality of desired rows and an image composed of the desired rows is written by the precharge data [0190].

In reference to claim 4, Sato discloses the precharge data is composed of image data extracted by every other  $j$  rows from predetermined rows [0195].

In reference to claim 5, Sato discloses precharge data is composed of a column-direction average value of image data consisting of  $j$  rows in the vicinity [0200].

In reference to claim 6, Sato discloses the precharge data consists of data of the slowest response time in the data change from the preceding frame among the  $j$  data pieces of the same column in the image data of  $j$  rows in the vicinity [0211].

In reference to claim 7, Sato discloses a liquid crystal display device the liquid crystal display unit writes image data line sequentially into the pixels arranged in a matrix state via the active elements [0195], thereby maintaining and displaying the image for a certain period, the periodically switching light source periodically turns ON and OFF in synchronization with the display timing of the liquid crystal display unit (Fig. 21), and during the first write ( $Ta1$ ), a

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plurality of rows are simultaneously selected (lines 31A, 31B are simultaneously selected in Fig. 20B) the image data of one of the rows (100B, 100D, 100F) is written and during the second write (Ta2), the remaining image data (100 A, 100C, 100 E) is successively written at once.[0195]

In reference to claim 8, Sato discloses second writing (Ta2), the remaining image data is divided into a plurality of sub-fields [0212] for writing and write polarity is reversed for each row [0204].

In reference in claim 9, Sato discloses in the latter half of the display frame, by using the image data used in the first half of the frame, third write and fourth write are added with reversed polarity [0204; 0214-0215].

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUC Q DINH whose telephone number is (571) 272-7686. The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edouard Patrick can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUC Q DINH  
Examiner  
Art Unit 2674

DQD  
January 22, 2006



PATRICK N. EDOUARD  
SUPERVISORY PATENT EXAMINER